

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 85300371.3

(51) Int. Cl.³: **C 25 D 3/54**
C 25 D 3/02, C 25 D 5/00
C 25 D 9/08

(22) Date of filing: 21.01.85

(30) Priority: 23.01.84 US 572822

(43) Date of publication of application:
25.09.85 Bulletin 85/39

(88) Date of deferred publication of search report: 26.08.87

(84) Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

(71) Applicant: **Rose, Robert M.**
18 Morgan Street
Wenham Massachusetts(US)

(71) Applicant: **Sadoway, Donald R.**
53 Vernon Road
Belmont Massachusetts(US)

(72) Inventor: **Rose, Robert M.**
18 Morgan Street
Wenham Massachusetts(US)

(72) Inventor: **Sadoway, Donald R.**
53 Vernon Road
Belmont Massachusetts(US)

(74) Representative: **Allsop, John Rowland**
Rowland Allsop & Co. Black Boy Yard 15 High Street
West Wycombe High Wycombe, Bucks. HP14 3AE(GB)

(54) **Cryoelectrodeposition.**

(57) A process for electrodeposition of a material on a substrate that includes the steps of establishing a liquid halogenous electrolyte containing the material to be plated on the substrate and a solute, said electrolyte having an appropriate electrical conductance in a cryogenic environment; and establishing an electric field within the electrolyte to effect migration of ions of said material to the substrate where they deposit.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A, D	US-A-3 990 953 (AUSTIN)		C 25 D 3/54 C 25 D 3/02 C 25 D 5/00 C 25 D 9/08
A	--- GB-A-1 367 872 (UNITED STATES ATOMIC ENERGY COMMISSION)		
A	--- JOURNAL OF ELECTROCHEM. SOC.: ELECTROCHEMICAL SCIENCE, vol. 114, no. 7, July 1967, pages 655-658; R. KELLER et al.: "Low-temperature battery system study using a mixture of HF and N2O4" -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			C 25 D 3/02 C 25 D 3/54 C 25 D 3/66 C 25 D 5/00 C 25 D 7/12 H 01 L 39/24
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-06-1987	Examiner VAN LEEUWEN R.H.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			